## RECEIVED CENTRAL FAX CENTER

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NO. 4091 P. 2/13

APPLICATION NO: 10/693,046
REPLY TO OFFICE ACTION OF 09/08/2006

## AMENDMENTS TO THE SPECIFICATION

A. Please replace the second paragraph on page 2 from line 8 to line 12 with the following amended paragraph:

A miniature air compressor usually used in art designing for providing compressed air to an air gun for equally spraying paint. However, almost all the conventional small compressor has compressors have a complicated structure and has have a piston that may not be smoothly operated and provides provide an unstable compressed air current.

B. Please replace the last paragraph on page 1 and the first paragraph on page 2, which is a continuation of the last paragraph on page 1, with the following amended paragraph:

To achieve the objective, the miniature air compressor in accordance with the present invention comprises a motor having a shaft for driving a crank. A cylinder has an open end allowing a second end of the crank extending into the cylinder for compressing the air and a elese— closed end opposite to the open end of the cylinder. The cylinder has an inlet and an outlet respectively defined in the elese closed end thereof and extending to communicate with an inner periphery of the cylinder. A cover is longitudinally mounted to the elese closed end of the cylinder. An input passage and an output passage are respectively defined in the cover. The input passage and the output passage respectively communicate with the inlet and the outlet of the cylinder. A valve sheet is secured between the elese— closed end of the

cylinder and the cover. The valve sheet selectively— sequentially closes the outlet in the cylinder and the input passage in the cover.

C. Please replace the last paragraph on page 3 and the first line on page 4, which is a continuation of the last paragraph on page 3, with the following amended paragraph:

The transmission device (20) includes a— an eccentric cam shaped econnector— crank (22) eccentrically and securely mounted to a free end of the shaft (11). The econnector— crank (22) includes a stub (23) perpendicularly extending therefrom opposite to the shaft (11) of the motor (10). A crank-piston rod (25) is pivotally mounted to the stub (23) and is perpendicular relative to the shaft (11). The crank-piston rod (25) includes a first end and a second end opposite to each other. A bearing (26) is mounted in the first end of the crank— piston rod (25) and the stub (23) of the connector— crank (22) is securely received in the bearing (26). A resilient seal-valve (27) is longitudinally secured on the second end of the crank— piston rod (25) by a fastener (28) and reciprocally— reciprocates in the cylinder (40) for compressed— compressing air in the cylinder (40).

D. Please replace the third paragraph on page 4 from line 4 to line 18 with the following amended paragraph:

The cylinder (40) has an open end allowing the second end of the erank— piston rod (25) extending into the cylinder (40) and a close closed end facing the cover (50). An outlet (42) and an inlet (43) are respectively defined in the close— closed end of the cylinder (40) and each extending to communicate with an inner periphery of the cylinder (40). A first inclined stopper (41) extends from the close— closed end.

is facially attached to the an-outer periphery of the closed end of the cylinder (40) for covering the inlet (43) and the outlet (42). The valve sheet (44) includes a <u>U shaped</u> first valve—flapper (46) and a—an inverted <u>U shaped</u> second ealve—flapper (45) respectively corresponding to the inlet (43) and the outlet (42). The first valve flapper (46) is opened to admit air entering the cylinder (40) via the inlet (43) while the piston rod (25) is actuated to perform an intake stroke. Meanwhile, eselectively wiggled into the inlet (43) and abuts the first inclined stopper (41) is capable of preventing to prevent the first valve—flapper (46) from being—overly—wiggled over flapped toward the inlet (43). —and—The the—second valve—flapper (45) is biased to close selectively—closes—the outlet (42) when the erank piston rod (25) moves backward moved relative to—toward the elose closed end of the cylinder (40) to perform a compression stroke.

E. Please replace the last paragraph on page 4 and the first paragraph on page 5, which is a continuation of the last paragraph on page 4, with the following amended paragraph:

The cover (50) is securely and airtightly mounted to the elese closed end of the cylinder (40) for holding the valve sheet (44) in place. The cover (50) includes an inlet passage (53) defined therein and corresponding to the first valve— flapper (46), and an outlet passage (52) defined in the cover (50) and corresponding to the second valve flapper (45). The first valve— flapper (46) selectively— closes the inlet passage (53) when the erank— piston rod (25)—is—moved toward the

eover (50) is actuated to perform a discharge stroke. A second inclined stopper (51) is provided to extend extending from the cover (50) into the outlet passage (52). The second valve— flapper (45) is wiggled forced to move into the outlet passage (52) in the cover (50) and to open the outlet (42) in— at the close— closed end of the cylinder (40), and abuts the The second inclined stopper (51) is capable of preventing to prevent the second valve— flapper (45) from being overly wiggled over flapping in the outlet passage (52) when the erank— piston rod (25) moves moved toward the cover (50). The cover (50) includes an input joint (54) and an outlet joint (55) laterally extending therefrom. The input joint (54) and the output joint (55) are respectively connected to a hose (not numbered) for easily operating the miniature air compressor in accordance with the present invention.

F. Please replace the last paragraph on page 5 and the first paragraph on page 6, which is a continuation of the last paragraph on page 5, with the following amended paragraph:

To operate the miniature air compressor of the present invention, the shaft (11) is rotated to drive the connector— crank (22) and the crank— piston rod (25) to make the second end and the resilient valve—seal (27) reciprocally moving moved—in the cylinder (40) for compressing the air in the cylinder (40). With reference to Fig. 4, when the second end of the crank— piston rod (25) being backward moved relative to—moves away from the close—closed end of the cylinder (40), the first valve—flapper (46) is wiggled—flaps toward into-the inlet (43) in—at the close—closed end of the cylinder (40) so that the

input passage (53) communicates with the cylinder (40) via the inlet (43), and the second valve— flapper (45) is forced securely abut the close end of the cylinder (40) to close the outlet (42) at the closed end of the cylinder (40) so that the compressed air should not— is incapable of flowing flow—back to the cylinder (40). Consequently, the air is sucked into the cylinder (40). With reference to Fig. 5, when the second end of the erank—piston rod (25) being—moved—moves toward the close—closed end of the cylinder (40), the first valve—flapper (46) securely abut the cover (50) to close—closes the input passage (53) in the cover (50) and the second valve—flapper (45) is wiggled—into forced to flap toward the output passage (52) to open the outlet (42) in the close—closed end of the cylinder (40). Consequently, the compressed air is discharged outputted-via the outlet (42) at in the close—closed end of the cylinder (40), the output passage (52) in the cover (50) and the output joint (55) of the cover (50).